

IN THE CLAIMS:

1.-28. (Cancelled)

29. (New) A recording medium having recorded thereon a video stream and a graphics stream, wherein:

the graphics stream includes one or more interactive control segment and an object definition segment defining a graphics object;

5 the interactive control segment includes multi-page information and time information;

the multi-page information defines a display composition of a multi-page menu;

the multi-page information includes one or more button information;

the button information indicates information used to present the graphic object in
10 a state of button material and to provide an interactive display composition on the page;

the multi-page menu includes a no menu display state, a first page only display state and a multi-page display state; and

the time information includes information to transition the display state of the multi-page menu in accordance with reproduction proceeding of the video Stream.

30. (New) The recording medium according to Claim 29, wherein:

the time information includes time out information; and

the time out information indicates a time to automatically activate the button in a selected state on the first page, thereby transitioning from the first page only display state to the
5 multi-page display state.

31. (New) The recording medium according to Claim 29, wherein:
- the interactive control segment includes user interface model information;
- the no menu display state does not transition to the first page only display state at a time stamp of a packet containing the interactive control segment in case that the user interface model information indicates an Always-On; and
- the no menu display state does not transition to the first page only display state and a display state representing at least one page does not transition to the no menu display state when a user operation is executed in case that the user interface model information indicates Pop-up.
- 15 32. (New) The recording medium according to Claim 29, wherein:
- the interactive display does not disappear by user operation when a user interface model information indicates an Always-On; and
- the interactive display is operable to disappear by user operation when a user interface model information indicates a Pop-Up.
33. (New) A playback apparatus used for playing back a video stream and a graphics stream, comprising:
- a video decoder operable to decode the video stream to obtain a moving picture;
- and
- a graphics decoder operable to decode the graphics stream so as to overlay a first page and a second page on the moving picture, wherein;
- the graphics stream includes one or more interactive control segment and an object definition segment defining a graphics object;

the interactive control segment includes multi-page information. -and time
10 information;

the multi-page information defines a display composition of a multi-page menu;

the multi-page information includes one or more button information;

the button information indicates information used to present the graphic object in
a state of button material and to provide an interactive display composition on the page;

15 the multi-page menu includes a no menu display state, a first page only display
state and a multi-page display state;

the time information includes information to transition the display state of the
multi-page menu in accordance with reproduction proceeding of, the graphic stream; and

20 the graphics decoder controls transitions of the, display state of the multi-page
menu, based on the time information.

34. (New) The playback apparatus according to Claim 33, wherein: the time
information includes time out information; and

the time out information indicates a time to automatically activate the button in a
selected state on the first page, thereby transitioning from the -first page only display state to the
5 multi-page display state.

35. (New) The playback apparatus according to Claim 33, wherein:

the graphics decoder transitions the display state from the no menu display state
to the page only display state at a time stamp of a packet containing the interactive control
segment in case that the user interface model information indicates an Always-On; and

5 the graphics decoder transitions the display state from the no menu display state to the first only display state and from a display state representing at least one page to the no menu display state when the user operation is executed in case that the user interface model information indicates Pop-up model.

36. (New) The playback apparatus according to Claim 33, wherein:

 the interactive display does not disappear by user operation when a user interface model information indicates an Always-On; and

 the interactive display is operable to disappear by user operation when a user

5 interface model information indicates a Pop-Up.

37. (New) A method for recording onto a recording medium, comprising: generating

 application data; and

 recording the application data onto the recording medium, wherein: the application data includes a video stream and a graphics stream; the video stream represents a

5 moving picture made up of a plurality of pictures;

 the graphics stream includes one or more interactive control segment and an object definition segment defining a graphics object;

 the interactive control segment includes multi-page information and time information;

10 the multi-page information defines a display composition of a multi-page menu;

 the multi-page information includes one or more button information; the button information indicates information used to present the graphic object in a state of button material and to provide an interactive display composition on the page;

the display state of multi-page menu includes a no menu display state, a first page
15 only display state and a multi-page display state; and

the time information includes information to transition the display state of the
multi-page menu in accordance with reproduction proceeding of the video stream.

38. (New) A method for playing back a video stream and graphics stream,
comprising:

decoding the video stream to obtain a moving picture; and

decoding the graphics stream so as to overlay a first page and a second page on

5 the moving picture, wherein:

the graphics stream includes one or more interactive control segment and an
object definition segment defining graphics object;

the interactive control segment includes multi-page -information and time
information;

10 the multi-page information defines a display composition of a multi-page menu;

the multi-page information includes one or more button information; the button
information indicates information used to present the graphic object in a state of button material
and to provide an interactive display composition on the page;

the display state of multi-page menu includes a no menu display state, a first page
15 only display state and a multi-page display state; and

the time information includes information to transition the display state of the
multi-page menu in accordance with reproduction proceeding of the video stream.